CONTROLLED DOCUMENT
EG&G - ROCKY FLATS PLANT
ENVIRONMENTAL MANAGEMENT

THIS IS A RED STAMP PLANT
EMD OPERATING
PROCEDURES MANUAL

Manual No.: Procedure No.: 5-21000-OPS-FO Table of Contents, Rev 40 1 of 3

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Effective Date:

01/12/93

Organization:

**Environmental Management** 

### THIS IS ONE VOLUME OF A SIX VOLUME SET WHICH INCLUDES:

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DOCUMENT CLASSIFICATION REVIEW WAIVER PER R.B. HOFFMAN, CLASSIFICATION OFFICE JUNE 11, 1991 ROCKY FLATS PLANT EMD OPERATING PROCEDURES MANUAL

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DCN 92.06	Clarification of Responsibility	2	09/09/92
DCN 92.07	Elimination of Drilling Requirements on Earthen	-	00,00,0
<del></del>	Dams	2	09/10/92
DCN 92.08	Consistency Change	2	09/18/92
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	Environmental materials Containers	2	05/12/92
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FO.13	and Shipping of Soil and Water Samples	2	05/12/92
	The second secon		
DCN 92.01	Chain of Custody	2	07/27/92
DCN 92.02	Improve Tracking of Samples	2	12/08/92
FO.14	Field Data Management	2	05/12/92
DCN 92.01	Update Bottle Codes and Lab Codes to Current		
	Status	2	06/30/92
DCN 92.02	Clarification of Biological Locations	2	11/20/92
	(07/08/92- Extended)		
DCN 92.03	Changes in Procedures	2	11/20/92
	(07/08/92 - Extended)		

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FO.14 (continued)			
DCN 92.04 DCN 92.05 DCN 92.06 DCN 92.07 DCN 92.08 DCN 92.09 DCN 92.10 DCN 92.11	Expired Update QA/QC Code List Clarify Description Update Bottle Code List Add Sub-Contractor Abbreviations Major Form Revision Elimination of Non-Required Section Update Bottle Code & Lab Codes to Current Status	2 2 2 2 2 2 2 2 2	10/15/92 09/28/92 09/28/92 09/28/92 10/14/92 11/03/92 11/10/92 12/09/92
FO.15	Photoionization Detectors (PIDs) and Flame Ionization Detectors (FIDs)	2	05/12/92
FO.16	Field Radiological Measurements	2	05/12/92
DCN 92.04 DCN 92.05	Expired Addition of HPGe	1 2	09/22/92 11/24/92
FO.17	Determining Out-Of-Specification Analytical Results for Environmental Samples		To Be Added
FO.18	Environmental Sample Radioactivity Content Screening	1	05/12/92
*DCN 93.01	Clarification of Procedure	1	01/11/93
FO.19	Base Laboratory Work	2	05/12/92

## EMB 1/15/93 This is a #22-CONTROLLED DOCUMENT EG&G - ROCKY FLATS PLANT ENVIRONMENTAL MANAGEMENT

# ENVIRONMENTAL MANAGEMENT DOCUMENT CHANGE NOTICE (DCN)

This is a RED Stamp rocedure Number 5-21000-OPS-FO.18, Red A 5/12/94

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			246	- 23/2-1/-				
Title Environme	ental San	nple Radioactivi	ty Content Se	creening		Date -11/11/92/11CS /- //- 93	1	N Number
Expires/ / Scope Lim		-mes <b>4</b> None	Procedure R	evision Req	puired 💢 Yes 🗆 N	io		
Item Number	Page	Step or Paragraph		(Use D	Chang CN CONTINUATION S		al space)	
			NOTE: Und	erlined por	rtions of these changes	are revised text.		
1.	2	Para. 1	the samples	including s	of the purpose to read: creening aliquots) collect sion activities are"			
2.	3	Figure	Delete refere	nce to flow	chart and delete flowcha	rt.		
The proced	Sec. 6, Para. 1, 2  Revise the two opening paragraphs to read as follows: "Samples (including screens) with total activity ≥0.002 μCi/g must be shipped as Radioactive Material and in compliance with applicable EG&G procedures (e.g., 4-21000-OPS-FO.25, Shipping Limit Ouantities of Radioactive Material In Samples, once issued), the EG&G RFP Transportation Manual, and the applicable health and safety plan(s).  Environmental samples are considered non-radioactive if historical data and field data (e.g., field surveys) indicate they are non-radioactive or if the data from screening samples indicates they are non-radioactive. Note that the definition of non-radioactive for shipping is ≤0.002 μCi/g; however, other regulatory limits also apply in making this determination relative to the use of licensed versus unlicensed laboratories, continued on page 2.  Instification (Reason for change - Provide numbers to reference corresponding items above.)  The procedure has been cited in several inspection reports as being difficult for the field personnel to understand and follow. The left side of Figure FO.18-1 directs personnel to violate DOT regulations and it is not clear if it assures we meet the							
A shipment event to Do misinterpre	A shipment was made under this procedure that violated DOT requirements and resulted in the reporting of an "Off-Normal" event to DOE. Although this action violated the requirements of this procedure, a review of the actions indicates that a misinterpretation of this procedure was a contributor to this error. Part of the corrective action for this event is the issuance of this DCN and the eventual revision of the procedure.							
Concurr	ence	Organization	Req.	Date	Concurrence	Organization	Req.	Date
DeryM	my	QAPM	х	12/11/42	Tannethleralel	User		12/14/92
Kurs J.C	· ·	Rad Eng.	x	12/18/92	Lise A Robin	IH		1/7/93
M.L. C. B	and ?	Easter	×_	1-8-93				
					M.C. bronssand	FOM		1-8-93
pipnoral o	Respon	sible Manager	Date	1.97/	Is Posting required?  ☐ Yes ☐ No	If Yes, by what da		Date posted

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## DOCUMENT CHANGE NOTICE (DCN) (Continuation Sheet)

		Page	2	of	2
DCN	No.				

Procedure No. 5-21000-OPS-FO.18	Title Environmental Sample Radioactivity Content Screening
Scope Limitation:	

Item	Page	Step or	Changes
Numbe r		Paragraph	(Use DCN CONTINUATION SHEET for additional space)
4.	7	Sec. 7.2.1, Para. 1	Add the following bullet to the list for samples requiring prescreening:  Samples that actual (e.g., field survey data) or historical data indicates may contain radioactivity in excess of applicable limits.  Revise the 4th bullet in samples not requiring screening to read:
			<ul> <li>Environmental samples including soil, sediments, and water from the environs         outside of RFP's controlled areas, unless the information above indicates that the         material may be radioactive.</li> </ul>
5.	8	Sec. 7.2.1, Top of page	Add the following caution to the top of this page:  CAUTION  Any off-site shipment of samples, which may contain radioactive material (as discussed previously in this section) shall be screened on site by equipment with sufficient capability to verify if its activity concentration is above 0.002 µCi/g and to determine the appropriate shipping requirements.
	! !	Last para. on page	Add the following information to the last paragraph on page 8:  Shipment shall comply with 49 CFR 173.421 or other applicable section of 49 CFR.
6.	11	Sec. 7.2.1, Last para.	Revise this paragraph to read as follows: Irrespective of the requirements listed above, the Laboratory's Radiation Officer has the authority to require additional screening prior to shipment to that lab.
7.	11	Sec. 7.2.2, Para. 2	Add the following clarification to the end of the second paragraph:  Note, in all cases (including samples sent to licensed laboratories) the screening method shall be capable of detecting activities of 0.002 µCi/g. The Program Chemist may designate specific methodology options for this screening, as long as they are appropriately documented and have the required detection capability.
8.	8	Sec. 7.2.1	Delete the first 3 paragraphs addressing the 150 DPM screening. Replace this with the following requirement Screen the samples to assure that they the samples meet the screening criteria established by the laboratory.
9.	13	7.2.3	Replace the "Total Specific Activity > 0.002 $\mu$ Ci/g" with "Total Specific Activity < 0.002 $\mu$ Ci/g" to correct the typo.

**Justification Continuation**